



RIDOT TMC Incident Statistics 7/1/2010 To 9/30/2010

The Rhode Island transportation system serves 39 cities and towns, encompassing rural, metropolitan, and tourist areas. The Rhode Island Department of Transportation's Transportation Management Center (RIDOT TMC) has been addressing the problem of increasing congestion in Rhode Island by informing the traveler of crashes and unusual delays. In doing so, the TMC has provided measurable benefits to the transportation system, and has developed the technology and institutional awareness necessary to expand the Intelligent Transportation Systems (ITS) Program (called RhodeWays) to the benefit of Rhode Island travelers.

The RIDOT TMC maintains detailed statistics on incidents that we manage from our center. Because the data are entered by our TMC Operators, the statistics are dependent on what we can observe on the roadways with our equipment. Review and compilation of these statistics is done quarterly. By making these statistics available to you, we hope that you can learn more about the program and understand the benefit of the services we provide to the Rhode Island motoring public.

The types of incidents tabulated in this report include disabled vehicles, debris on the roadway, emergency roadwork, vehicle accidents, and vehicle rollovers. Additionally, a category exists for congestion delays that are outside of typical recurring congestion. The TMC does assist in information dissemination for planned events (such as construction) as well, but those types of events are not included in the statistics. Also, abandoned vehicles are not included since they tend to skew the statistics.

We hope you find this report interesting and that it helps in understanding the significant benefit that the RhodeWays program provides to the people who travel Rhode Island's roadways every day. Also, please remember to check the TMC website frequently for updates (<http://www.tmc.state.ri.us>), including construction and incident information.

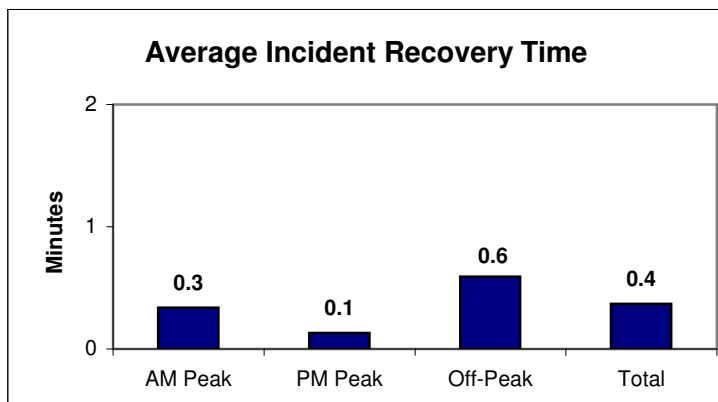
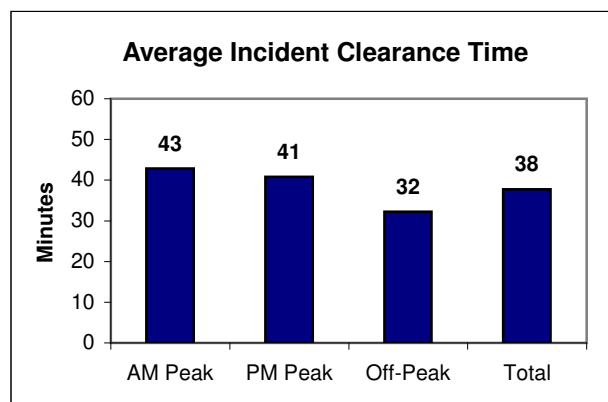
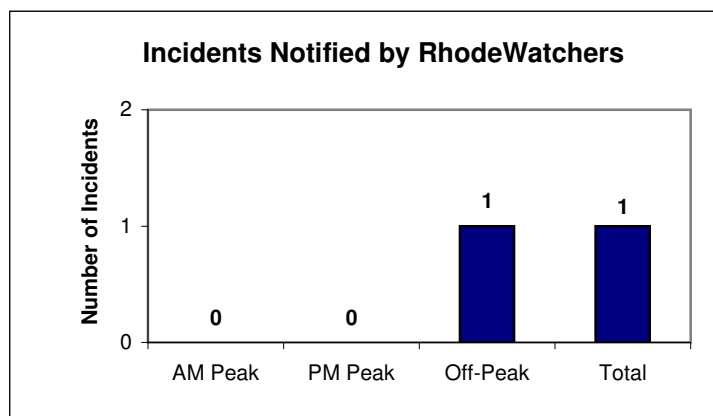
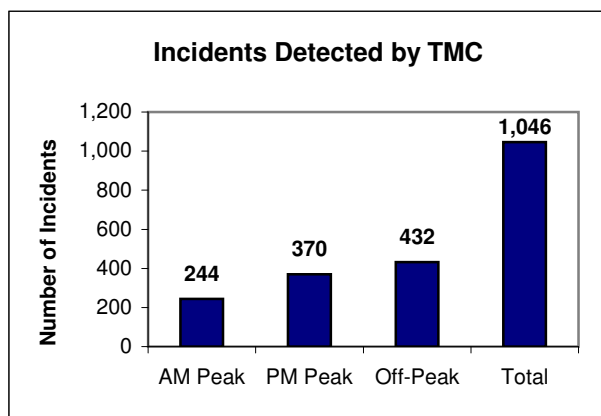
RIDOT TMC Incident Statistics Report

1. Peak Period Incident Statistics*

	AM Peak	PM Peak	Off-Peak	Total
Number of Incidents	251	376	441	1068
Avg. Incident Duration (min)	43	41	33	38
Avg. Incident Clearance Time (min)	43	41	32	38
Avg. Incident Recovery Time (min)	0	0	1	0
# Detected by TMC Operators (CCVE)	129	110	164	403
# Detected by TMC, State Police	115	260	268	643
# Notified by RhodeWatchers	0	0	1	1
# of Messages Posted VMS	18	30	37	85
# of Messages Posted DMS	67	143	162	372
# of Messages Posted HAR	59	61	84	204
# of Messages posted Web	227	356	386	969
Avg. Delay Cost**	\$182,631	\$173,149	\$139,043	\$161,294
Total Delay Cost	\$45,840,490	\$65,103,897	\$61,318,044	\$172,262,431

* AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday

** Delay Cost is a function of incident duration, volume on the roadway, delay per person, and cost per hour of delay for both commercial and personal vehicles. Average delay cost includes only incidents with a lane blockage and represents average cost per incident.



Note: Statistics in this report are only for incidents that the TMC reported or responded to. They do not include all incidents that occurred on Rhode Island roadways

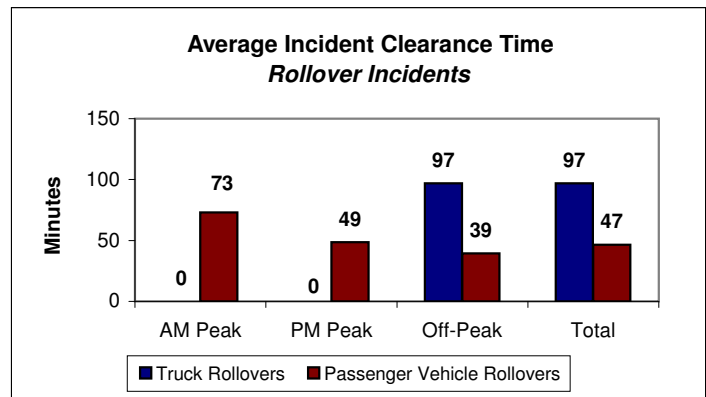
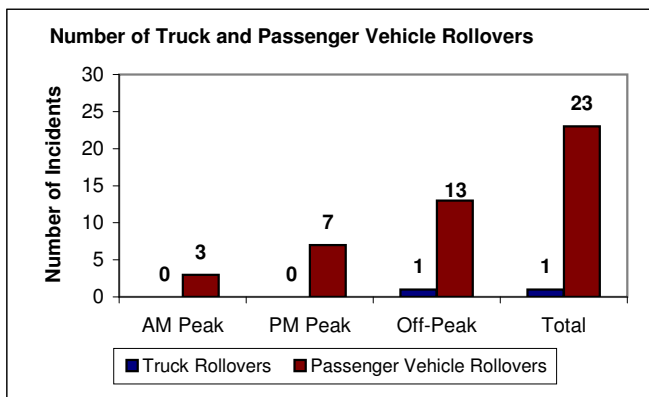
Incident Clearance Time is the time from the start of an incident (or when it is detected) to the time it is cleared from the roadway.

Incident Recovery Time is the time it takes for the roadway to be rid of residual delay following incident clearance. It is based on TMC Operator observation.

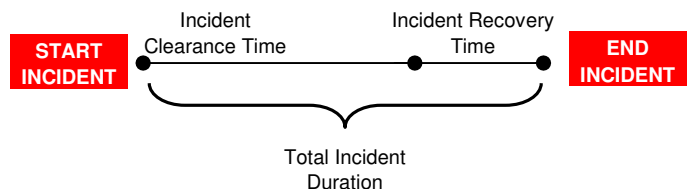
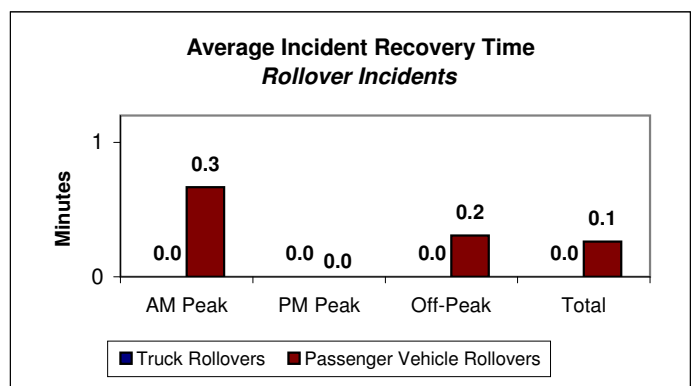
2. Rollover Incident Statistics*

VEHICLES	Trucks				Automobiles			
	AM Peak	PM Peak	Off-Peak	Total	AM Peak	PM Peak	Off-Peak	Total
No. of Rollovers	0	0	1	1	3	7	13	23
Avg. Incident Duration (min)	0	0	97	97	73	49	40	47
Avg. Incident Clearance Time (min)	0	0	97	97	73	49	39	47
Avg. Incident Recovery Time (min)	0	0	0	0	0	0	0	0

* AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday



Roadway	Exit Number	Number Of Rollovers
Interstate 295 Southbound	7B	1
Interstate 295 Southbound	7A	1
Interstate 295 Southbound	10	1
Interstate 95 Northbound	5A	1
Interstate 95 Northbound	18	1
Interstate 95 Northbound	12	1
Interstate 95 Southbound	18	1
Interstate 95 Southbound	10A	1
Interstate 95 Southbound	N/A	1
Interstate 95 Southbound	6A	1
Interstate 95 Southbound	15	1
Interstate 95 Southbound	25	1
Interstate 95 Southbound	9	1
Interstate 95 Southbound	4	1
Interstate 95 Southbound	15	2
Interstate 95 Southbound	5A	1
Route 10 Northbound	N/A	1
Route 10 Northbound	N/A	1
Route 102 Westbound	N/A	1
Route 138 Westbound	N/A	1
Route 146 Northbound	N/A	1
Route 37 Westbound	4B	1
Route 78 Eastbound	4	1
TOTAL		24



3. Incidents by Severity Level

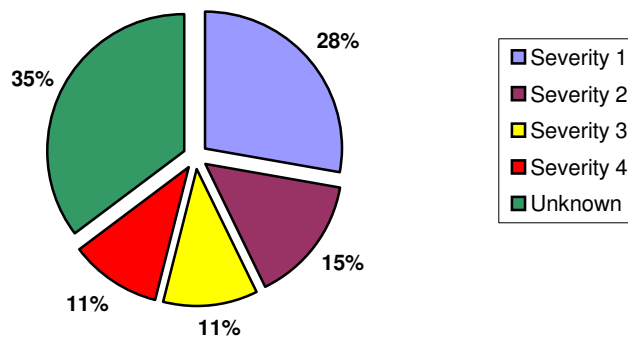
Severity Level*	No. of Incidents
Severity 0	477
Severity 1	164
Severity 2	89
Severity 3	65
Severity 4	64
Unknown	209
Total	1068

Number of Incidents with a Secondary Incident:

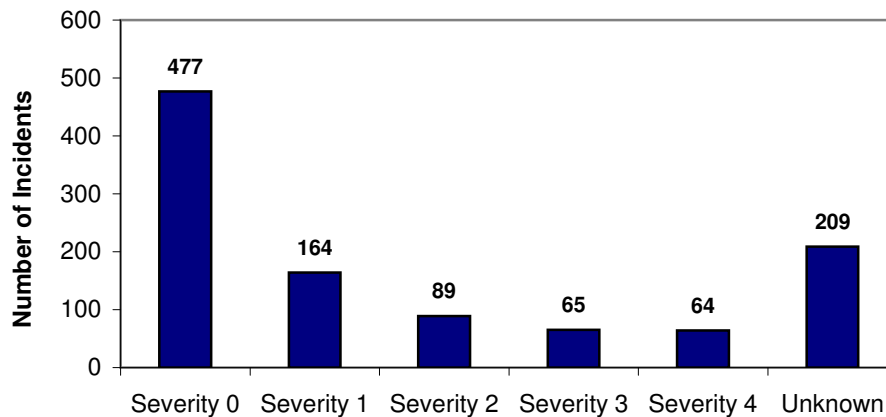
Percentage of Incidents with a Secondary Incident:

Note: A "secondary" incident is one that is the result of an earlier incident.

Percent of Incidents by Severity Level



Number of Incidents by Severity Level



*Definition of Incident Severity Levels:

Severity 0: No injuries and no travel lanes blocked

Severity 1: 1/4+ travel lanes blocked with no injuries OR median/shoulder closed with injuries

Severity 2: 1/3 or 2/4+ lanes blocked OR Fire w/ 0 lanes closed OR hazardous materials (HAZMAT) w/ 0 lanes closed

Severity 3: 1/2 or 2/3 or 3/4+ lanes blocked OR Fire w/ 1/3 or 2/4 lanes closed OR

Hazmat w/ 2/4 lanes closed

Severity 4: All travel lanes blocked OR fatality OR Hazmat w/ clean-up OR Fire w/ 1/2, 2/3, 3/4 lanes closed

OR Structural damage w/ 1/3, 2/3+ lanes closed

Unknown: Incidents without a recorded severity level

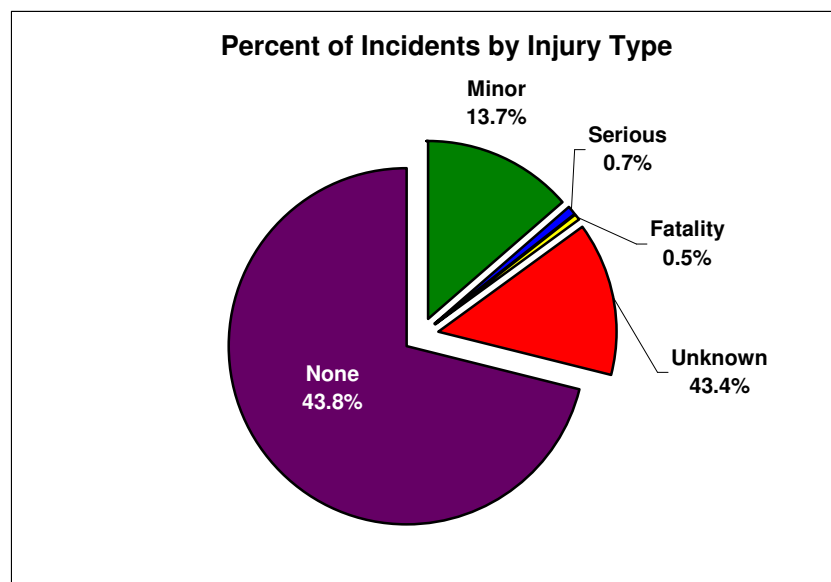
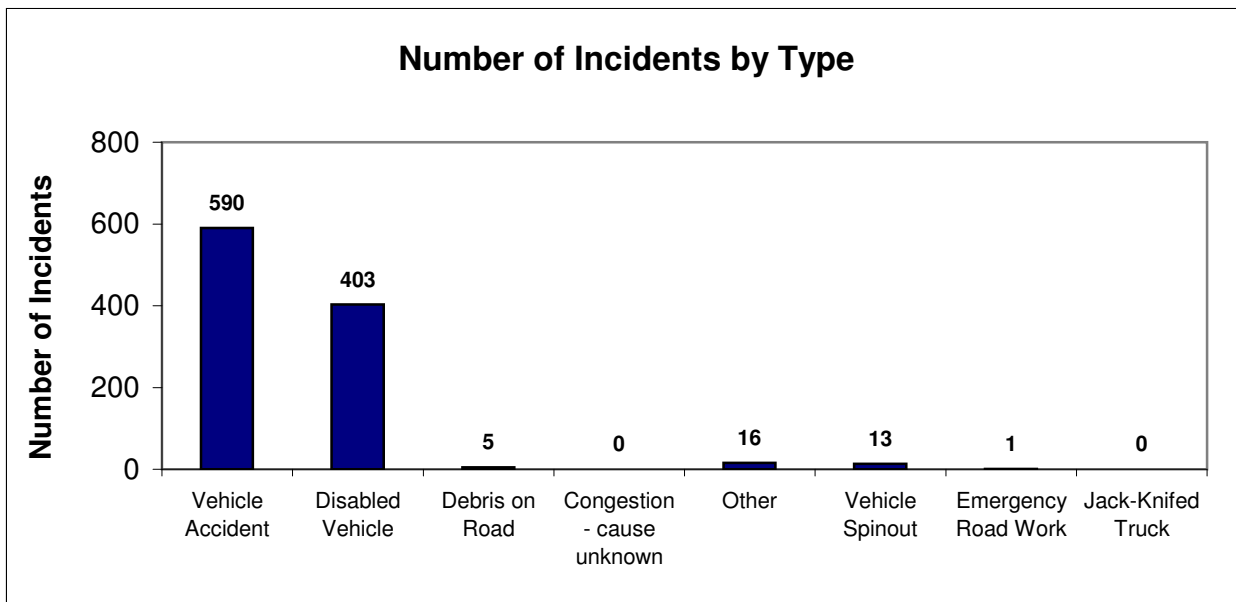
Note: For travel lanes blocked terminology, "1/4" indicates 1 out of 4 lanes blocked

4. Incidents by Type

Incident Type	No. of Incidents
Vehicle Accident	590
Disabled Vehicle	403
Debris on Road	5
Congestion - cause unknown	0
Other	16
Vehicle Spinout	13
Emergency Road Work	1
Jack-Knifed Truck	0
<i>Total Number of Incidents</i>	<i>1028</i>

5. Incidents by Injury Type

Injury Type	No. of Incidents
Minor	146
Serious	8
Fatality	5
Unknown	150
None	759
<i>Total</i>	<i>1068</i>



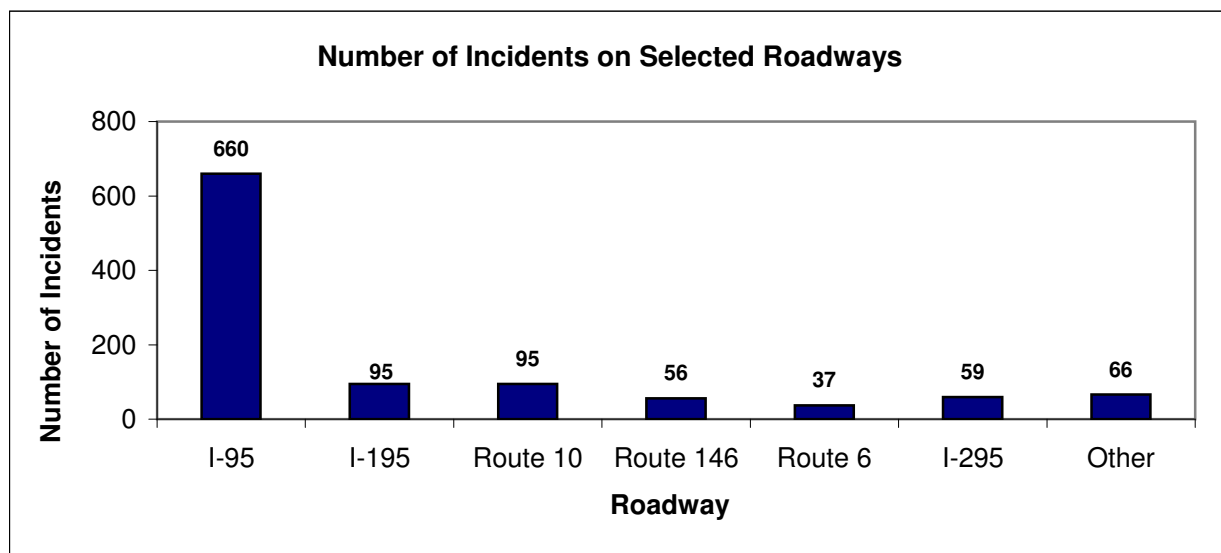
6. Incidents by Pavement and Weather Conditions

Pavement Condition	No. of Incidents
Dry	866
Wet	202
Icy	0
Snow-Covered	0
Flooded	0
Other	0
<i>Total</i>	<i>1068</i>
Precipitation	
None	909
Light-moderate rain falling	145
Heavy rain falling	13
Light-moderate sleet falling	1
Heavy sleet falling	0
Light-moderate snow falling	0
Heavy snow falling	0
<i>Total</i>	<i>1068</i>
Wind	
Calm to Moderate	1049
Moderate to Strong	19
Gusts over 50 mph	0
Gusts over 75 mph	0
Hurricane	0
Other	0
N/A	0
<i>Total</i>	<i>1068</i>
Visibility	
Clear	922
Light fog	7
Dense fog	4
Reduced- rain	134
Reduced-snow	0
Poor-heavy rain/sleet	0
Poor-heavy snow	0
Reduced-smoke	0
Other	0
N/A	1
<i>Total</i>	<i>1068</i>

7. Incidents Detected by Primary Notifier on Selected Roadways

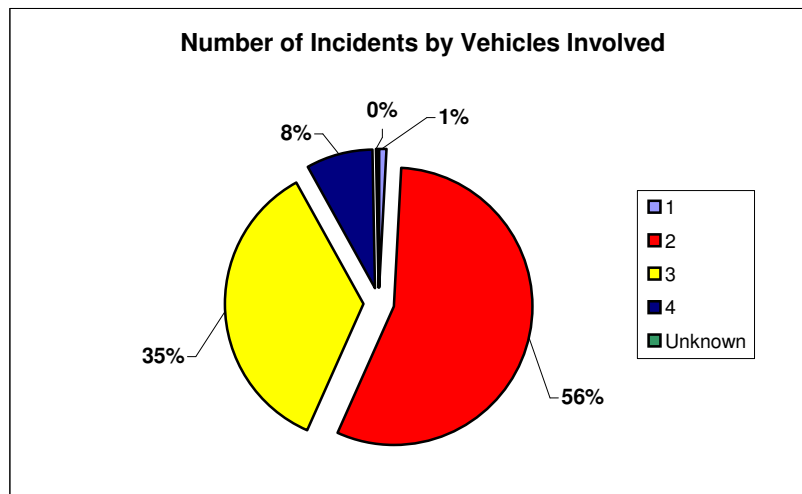
Roadway	Primary Notifier	No. of Incidents
I-195	TMC Operator	38
	State Police Scanner	49
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	0
	Other	8
	Total	95
I-95	TMC Operator	289
	State Police Scanner	316
	Local Fire Department	0
	Rhode Watcher	1
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	1
	Other	53
	Total	660
I-295	TMC Operator	10
	State Police Scanner	38
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	0
	Other	11
	Total	59

Roadway	Primary Notifier	No. of Incidents
Route 10	TMC Operator	32
	State Police Scanner	56
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	0
	Other	7
	Total	95
Route 146	TMC Operator	16
	State Police Scanner	36
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	0
	Other	4
	Total	56
Route 6	TMC Operator	13
	State Police Scanner	19
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	TMC State Police	0
	Transcom	0
	Other	5
	Total	37



8. Incidents by Number of Vehicles Involved

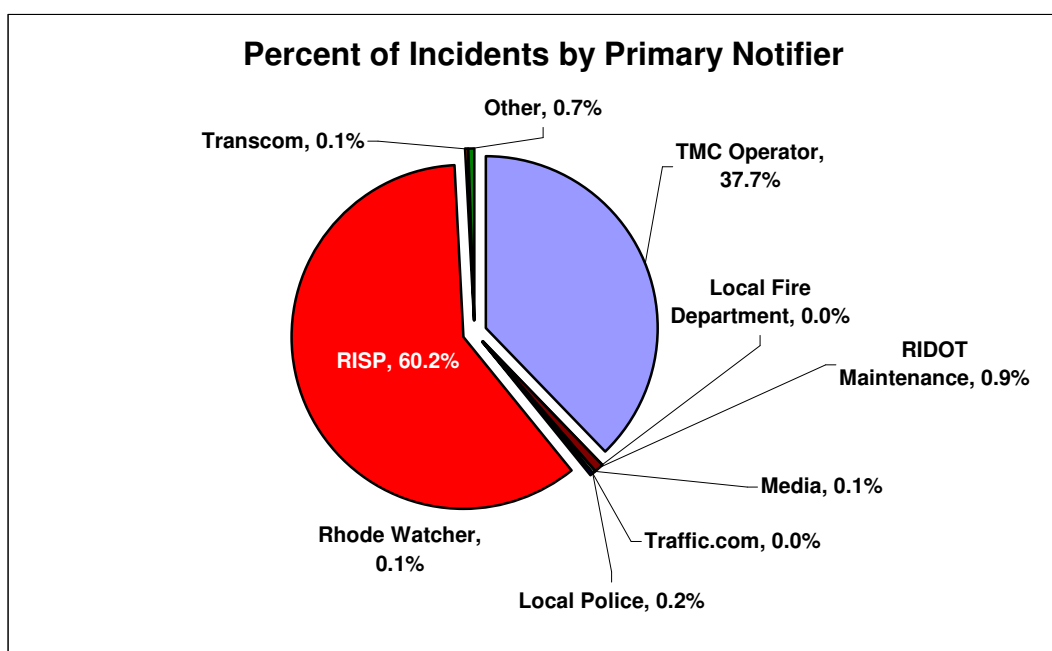
No. of Vehicles Involved	No. of Incidents
1	9
2	586
3	372
4	80
5	10
6	4
7	3
8	0
9	0
10+	0
Unknown	4
Total Incidents	1068

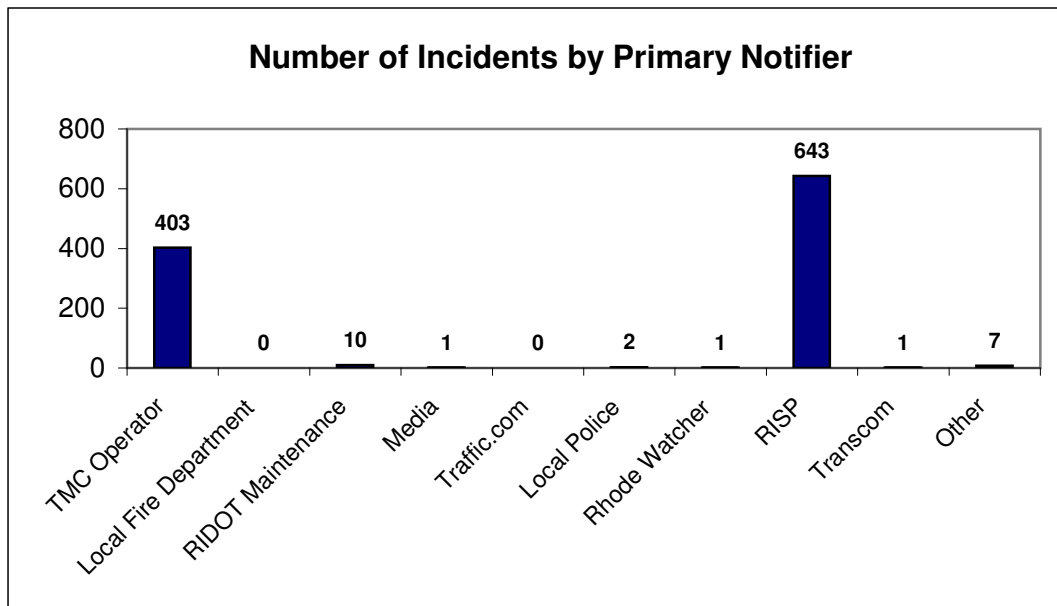


9. Incident Notification

Primary Notifier*	No. of Incidents
TMC Operator	403
Local Fire Department	0
RIDOT Maintenance	10
Media	1
Traffic.com	0
Local Police	2
Rhode Watcher	1
RISP	643
Transcom	1
Other	7
Total	1068

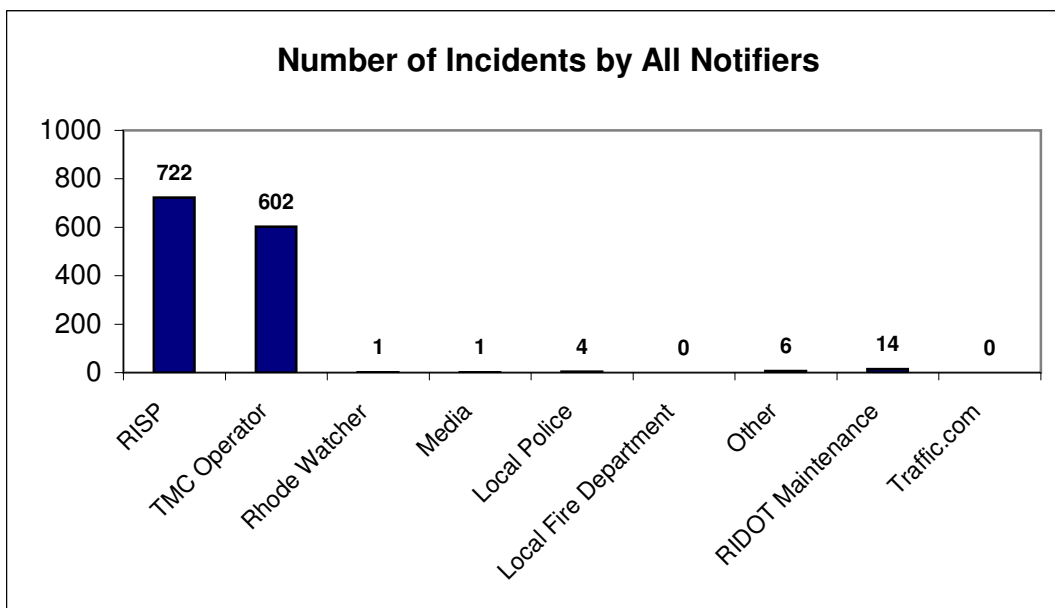
*First notifier of the incident to TMC





Notifier	No. of Incidents
RISP	722
TMC Operator	602
Rhode Watcher	1
Media	1
Local Police	4
Local Fire Department	0
Other	6
RIDOT Maintenance	14
Traffic.com	0
Transcom	1

Note: Primary notifier indicates the first notifier of the incident to the TMC. Additional notifiers are also logged, and are represented in the statistics for "all notifiers".



10. Incident Response

On-Scene Responding Agency	No. of Incidents	Percent of Total Incidents
State Police	829	77.62%
Tow	338	31.65%
Local Fire Department	220	20.60%
EMS	211	19.76%
Local Police	64	5.99%
Service Patrol	26	2.43%
Mass Highway	0	0.00%
DOT	12	1.12%
Hazmat	1	0.09%
DEM	1	0.09%
Connecticut DOT	0	0.00%
Construction	1	0.09%
Coast Guard	0	0.00%
Department of Health	0	0.00%
K-9	0	0.00%
RIPTA	1	0.09%

	# of Incidents
# Involved Equipment(HAR,VMS or CCVE)	430
# of VMS Messages	85
# of DMS Messages	372
# of HAR Messages	204
# of Web Messages	969

Note: Numbers and percentages in upper table indicate how many of the incidents during the month were responded to by the agency indicated. Note that multiple agencies may respond to an incident, so percentages do not add up to 100%.

